

# Configuring the TD-50X to use the DWe pads

This manual explains how to make the settings and so on, in order to use the TD-50X with DWe pads.

## Introduction

By connecting the DWe DrumLink™ hub to the TD-50X, you can use the DWe pads to play the sounds of the TD-50X.

### Example 1: Using the DWe

This lets you use the TD-50X as a drum sound module.



### Example 2: Using the TD-50X

This lets you add DWe pads to the setup.



## Checking the system program version of the TD-50X

Before using the TD-50X together with DWe pads, Make sure that the system program version of the TD-50X is Ver. 1.10 or later.

If the current version is earlier than Ver. 1.10, update the system.

### MEMO

If you are using the TD-50, you can use DWe pads once you upgrade to the TD-50X.

Refer to the following for details.

[https://www.roland.com/products/rc\\_td-50x\\_upgrade/](https://www.roland.com/products/rc_td-50x_upgrade/)



## Checking the TD-50X version

1. Press the [SETUP] button on the TD-50X.  
The SETUP MENU screen appears.
2. Use the PAGE [UP] [DOWN] buttons to show the SETUP MENU 2 screen.
3. Press the [F3] (INFO) button.  
The information screen appears.
4. Press the [F1] (PROGRAM) button to show the program version.

## How to get the update (system program)

1. Enter the following URL on your computer.  
<https://www.roland.com/support/>
2. Choose "TD-50X" as the product name.  
See the download page of the update software for how to do the update.

## How to set up

See the Quick Start Guide included with the DWe for how to assemble and play each DWe pad.

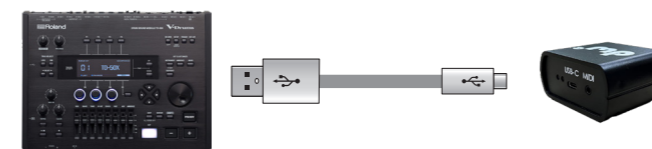
### NOTE

The drumming techniques listed below for the DWe pads do not work with the TD-50X.

DWe snare	digiMAG snare throw-off, Pitch bend
DWe tom/floor tom	Pitch bend, Choke
DWe hi-hat	Bell zone playing
DWe crash	Bell zone playing

## 1. Connecting the DWe DrumLink™ hub to the TD-50X

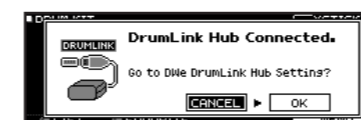
1. Use a USB cable to connect the DIGITAL TRIGGER IN ports of the TD-50X to the DWe DrumLink™ hub.



### NOTE

Do not place the DrumLink™ hub on top of the sound module. Place it on a nearby table or on the floor. When doing so, use a commercially available USB cable of the required length.

The following message is shown once you connect the DrumLink™ hub.



2. To switch to the DWe DRUMLINK HUB settings screen, such as when you want to pair with a DWe pad, use the cursor buttons to select "OK" and then press the [ENTER] button.

This switches to the DWe DRUMLINK HUB screen.

### NOTE

- If you've already connected the three DIGITAL TRIGGER IN ports of the TD-50X to Roland digital pads (such as the PD-140DS, CY-18DR or VH-14D), disconnect one of the digital pads and then connect the DrumLink™. In this case, you can only use up to two digital pads.

- If you want to use three digital pads and a DWe pad, use a MIDI cable to connect the MIDI OUT of the DrumLink™ hub to the MIDI IN of the TD-50X sound module. See the DWe product support page for usage instructions.

[www.dwdrums.com/DWe/support](http://www.dwdrums.com/DWe/support)



## 2. Pairing the DrumLink™ hub with the DWe pads

You must pair the DrumLink™ hub with the DWe pads when you first connect them. You don't need to do this if you've already paired the DrumLink™ hub with the DWe pads.

- \* If the DRUMLINK HUB screen is already shown in "1. Connecting the DWe DrumLink™ hub to the TD-50X", operate from step 3.

1. Press the [TRIGGER] button on the TD-50X.
2. Press the PAGE [DOWN] button to display page 5 (TRIG DWE HUB).

If the [F3] button's function name is shown as "RF OFF", press the [F3] button to change it to "RF ON".



3. Press the [F4] (PAIR) button, and strike each DWe pad once that you want to pair.

Once the pads or cymbals are paired, a message like the following appears.



- \* You don't need to strike each pad more than once.

English

日本語

Deutsch

Français

Italiano

Español

Português

Nederlands

简体中文

4. Press the [ENTER] button if you want to switch to the DWe pad settings screen after pairing is completed.

**NOTE**

- Each DWe pad parameters are not saved in the TD-50X, but are saved in each DWe pad. Also, because changing a parameter does not apply the setting to the pad, strike the pad you want to change the setting to reflect the setting. For details, refer to "5. Adjusting the DWe pad sensitivity" (p. 4).

**MEMO**

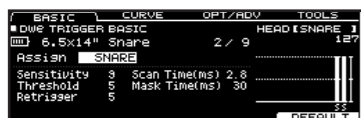
- After pairing, the information for each DWe pad is stored in memory on the DrumLink™ hub. The units automatically pair when you restart the TD-50X or connect the DrumLink™ hub to a different TD-50X, so there's no need to pair manually.
- Although pairing is not necessary after restarting this unit, you must strike the pad you want to set once to make it show up on the pad settings screen.
- To exchange a pad, unpair the pad you no longer need and then pair with the new pad.
- The TD-50X supports connecting up to 14 pads.

### 3. Configuring the DWe pad assignment

Here's how to specify the trigger input to which a connected DWe pad should be assigned.

The optimal assignments are already made when you first connect each pad. The following explains how to change the assigned destinations (assignments).

1. Press the [TRIGGER] button on the TD-50X.
2. Press the PAGE [UP] [DOWN] buttons to display page 4 (TRIG DWE).
3. Press the [F1] (BASIC) button to display the DWE TRIGGER BASIC screen.



4. Strike to select the DWe pad that you want to set.

You can also use the cursor buttons to move the cursor, and use the [-] [+] buttons or the dial to select the DWe pad to set.



5. Use the cursor buttons to select the Assign parameter.

6. Use the [-] [+] buttons or the dial to edit the assignment.

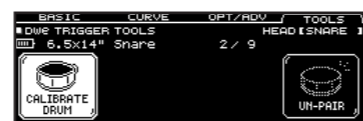
### 4. Calibrating a DWe pad

Before using the DWe pads, follow these steps to adjust (calibrate) the sensors built into each pad.

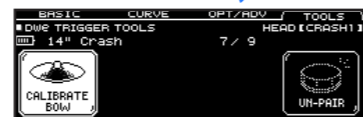
1. Press the [TRIGGER] button on the TD-50X.
2. Press the PAGE [UP] [DOWN] buttons to display page 4 (TRIG DWE).
3. Press the [F4] (TOOLS) button to show the DWE TRIGGER TOOLS screen.
4. Strike the DWe pad to select the pad to calibrate.

You can also use the cursor buttons to move the cursor, and use the [-] [+] buttons or the dial to select the DWe pad to set.

**When the DWe snare is selected**



**When the DWe crash/ride cymbal is selected**



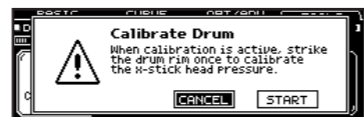
**When the DWe hi-hat is selected**



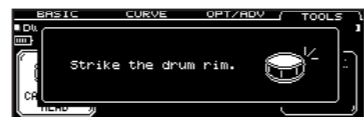
5. Use the cursor buttons to select [CALIBRATE DRUM], [CALIBRATE BOW] or [CALIBRATE PEDAL], and press the [ENTER] button to begin calibration.

#### DWe snare: calibrating the head

- 5-1. Use the cursor buttons to select "START", and press the [ENTER] button.



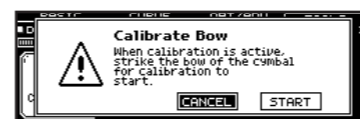
- 5-2. When the next message is shown, strike the rim of the snare drum.



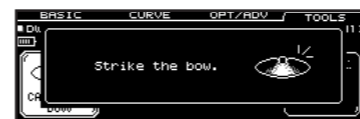
This completes the calibration.

#### DWe crash/ride/hi-hat: calibrating the bow

- 5-1. Use the cursor buttons to select "START", and press the [ENTER] button.



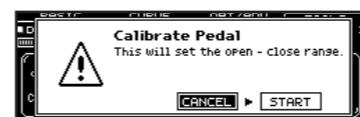
- 5-2. When the next message is shown, strike the bow of the cymbal.



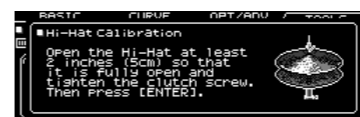
This completes the calibration.

#### DWe hi-hat: calibrating the pedal

- 5-1. Use the cursor buttons to select "START", and press the [ENTER] button.



- 5-2. When you see the following message, loosen the clutch screw of the DWe hi-hat.

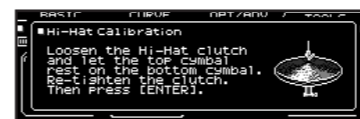


- 5-3. Retighten the screw with the top and bottom cymbals at least 5 cm apart, and press the [ENTER] button.

- 5-4. When you see the following message, strike the DWe hi-hat cymbal to calibrate the open position.



- 5-5. Loosen the DWe hi-hat clutch screw again, retighten the screw with the hi-hat in closed position, and press the [ENTER] button.



- 5-6. When you see the following message, strike the DWe hi-hat cymbal to calibrate the closed position.



- 5-7. When the following message appears, calibration is complete.



**MEMO**

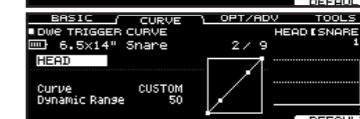
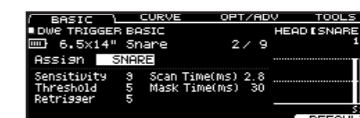
- The DWe pads may behave differently depending on the environment (such as temperature) in which they are used. We recommend that you calibrate the pads before you use them.
- Make sure to calibrate the DWe snare if you've adjusted its tension.
- TD-50X controls the range from DWe hi-hat pedal open to closed as 0 to 90.

### 5. Adjusting the DWe pad sensitivity

Each DWe pad is already set to its optimum sensitivity value by factory default. Adjust the DWe pad sensitivity if you need to make more detailed settings or use DWe pads together with Roland pads.

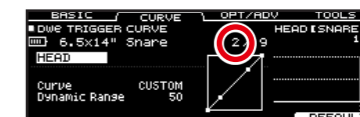
For details on each parameter, refer to "DWe pad parameter descriptions" (p. 5).

1. Press the [TRIGGER] button on the TD-50X.
2. Press the PAGE [UP] [DOWN] buttons to display page 4 (TRIG DWE).
3. Press the [F1] (BASIC) button or the [F2] (CURVE) button to display the DWE TRIGGER BASIC screen or the DWE TRIGGER CURVE screen.



4. Strike to select the DWe pad that you want to set.

You can also use the cursor buttons to move the cursor, and use the [-] [+] buttons or the dial to select the DWe pad to set.

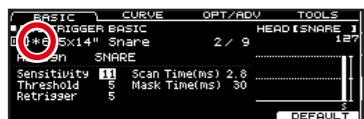


5. Use the cursor buttons to select a parameter, and use the [-] [+] buttons or the dial to edit the value.

### 6. Strike the selected pad once to apply the parameter.

Simply changing the parameter does not apply the settings to the pad. When an asterisk appears as shown below, this means that the settings haven't yet been applied to the pad.

Strike the applicable pad to apply the settings. The asterisk disappears once the settings are applied to the pad.



#### MEMO

- When using DWe pads together with Roland pads, note that their respective sensitivities may differ. In this case, you can mainly adjust the Sensitivity, Curve and Dynamic Range parameters for the DWe pad to make the respective sensitivities about the same.
- Here's how to return the parameters to their factory settings.

#### 1. Press the [F5] (DEFAULT) button.

A confirmation message appears.

#### 2. Use the cursor buttons to select "OK", and press the [ENTER] button to initialize the settings.

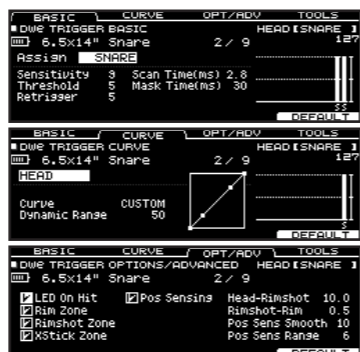


#### 3. When the following message appears, strike the pad.



## DWe pad parameter descriptions

### TRIG DWE (page 4)



Parameter	Explanation
<b>DWE TRIGGER BASIC tab</b>	
Assign	<p>KICK, SNARE, TOM1, TOM2, TOM3, TOM4, HI-HAT, CRASH1, CRASH2, RIDE, AUX1, AUX2, AUX3, AUX4</p> <p>Specifies the trigger input to which a connected DWe pad should be assigned.</p>
Sensitivity	<p>1-16</p> <p>Adjusts the sensitivity of the pads, which lets you control the balance between how hard you strike the pads and the volume.</p> <ul style="list-style-type: none"> <li>Increasing this value increases the sensitivity, so that even soft strikes on the pad play the sound at higher volumes.</li> <li>Decreasing this value decreases the sensitivity, so that even hard strikes on the pad play the sound at lower volumes.</li> </ul>
Threshold	<p>1-15</p> <p>Adjusts the minimum sensitivity of the pads.</p> <ul style="list-style-type: none"> <li>Higher values make the pads respond only when you strike them harder.</li> <li>Lower values make the pads respond even when you strike them softer. Note that the pads may respond incorrectly when you set this to a lower value.</li> </ul> <p>→ "Crosstalk reduction" (p. 7)</p>
Retrigger	<p>0-16</p> <p>Adjusts the detection of attenuation for the trigger signal.</p> <p>The pad may accidentally retrigger multiple times even though you've only struck the pad once. This is caused by fluctuations in the trigger signal that's transmitted when you strike a pad. Use this parameter to prevent this kind of retriggering due to fluctuations in the trigger signal. While repeatedly striking the pad, raise the value until retriggering no longer occurs. Although higher values prevent retriggering, this has the side effect of omitting some sounds when you repeatedly strike the pad in quick succession. Set this to the lowest value possible while still ensuring that there is no retriggering.</p>

Parameter	Explanation
Scan Time (ms)	<p>2.0-5.0</p> <p>Fine-tunes the trigger signal detection time.</p> <p>Since the rise time of the trigger signal waveform differs slightly depending on the characteristics of each pad, the sounds produced may vary in volume even when you're striking the pad at the same velocity. If this occurs, you can adjust the trigger signal detection time (Scan Time) so that your playing strength can be detected more precisely.</p> <p>* As the value is set higher, the time it takes for the sound to play increases. Set this to as low a value as possible.</p>
Mask Time (ms)	<p>0-70</p> <p>Adjust this to prevent double triggering.</p> <p>For instance, when you play the kick drum, the beater can bounce back and hit the head a second time immediately after the intended note, which causes a single hit to "double trigger" (two sounds instead of one).</p> <p>The Mask Time setting helps to prevent this. Once a pad is struck, any additional trigger signals occurring within the specified time are ignored.</p> <p>Increasing this value makes it more likely that notes played in rapid succession are to drop out. Set this to as low a value as possible.</p>
<b>DWE TRIGGER CURVE tab</b>	
Curve	<p>USER, LINEAR, LOG1, LOG2, LOG3, POW1, POW2, POW3, EXP1, EXP2, EXP3</p> <p>Adjusts how the volume changes in response to how hard you strike the pad.</p> <p>On the TD-50X, you can select settings that are adjusted via DWe Control (USER) and from multiple presets (LINEAR-EXP3).</p> <p>* You can set Curve and Dynamic Range for each playing style.</p>
Dynamic Range	<p>0-100</p> <p>Adjusts the range of dynamics you use to strike the pads.</p> <p>Increasing this value narrows the range, so that even soft strikes on the pad play the sound at a high volume.</p> <p>This is useful for making detailed adjustments according to your playing technique, after you have adjusted the pad sensitivity using the Sensitivity parameter.</p>
<b>DWE TRIGGER OPTION/ADVANCED tab</b>	
<b>Settings common to all DWe pads</b>	
LED On Hit	<p>OFF, ON</p> <p>Sets whether the LED built into the pad lights up when you strike the pad.</p>
<b>DWe snare, tom</b>	
Rim Zone	<p>OFF, ON</p> <p>Lets you switch rim detection on/off.</p>
Rimshot Zone	<p>OFF, ON</p> <p>Lets you switch rim shot detection on/off.</p>
XStick Zone	<p>OFF, ON</p> <p>Lets you switch cross stick detection on/off.</p> <p>* This parameter is only for the snare drum.</p>

Parameter	Explanation
Pos Sensing	<p>OFF, ON</p> <p>Lets you turn strike position detection on/off.</p> <p>* This parameter is only for the snare drum.</p> <p>* When Pos Sensing is set to on, the Pitch Bend parameter which can be set in the DWe Control application is automatically switched off.</p>
Head-Rimshot	<p>0.0-15.5</p> <p>Lets you adjust how easily the rim shot and head sounds play.</p> <p>Decrease this value if the rim shot plays even when you strike the head.</p> <p>Increase this value if the head sound is heard when you play a rim shot.</p> <p>* Set this by gradually changing the value while checking how this affects the sound.</p>
Rimshot-Rim	<p>0.0-1.0</p> <p>Lets you adjust how easily the rim and rim shot sounds play.</p> <p>If the rim sound is heard when you play a rim shot, decrease this value.</p> <p>Increase this value if the rim shot plays even when you strike just the rim.</p> <p>* Set this by gradually changing the value while checking how this affects the sound.</p>
Pos Sens Smooth	<p>0-15</p> <p>Adjusts how the sound changes according to the strike position detected on the snare.</p> <p>* This parameter is only for the snare drum.</p>
Pos Sens Range	<p>1-8</p> <p>Adjusts the range over which the strike position is detected on the pad face of the snare.</p> <p>Larger values make the sounds play more readily when you strike closer to the center of the pad face; smaller values make the sounds play more readily when you strike towards the edges of the pad face.</p> <p>* This parameter is only for the snare drum.</p>
<b>DWe crash, ride, hi-hat</b>	
FSR Auto Calib	<p>OFF, ON</p> <p>Lets you turn auto-calibration on/off for the sensors that are built into the edges of the cymbals.</p> <p>Turn this function on if the surrounding environment (such as temperature) changes significantly when you're using the DWe crash or ride. This function automatically calibrates the trigger detection accuracy.</p> <p>* This parameter is only for the crash and ride.</p>
Bow-Bell	<p>0.0-1.0</p> <p>Lets you adjust how easily the bell and bow sounds play.</p> <p>Decrease this value if the bell sound plays even when you strike the bow.</p> <p>Increase this value if the bow sound is heard when you play the bell.</p> <p>* Set this by gradually changing the value while checking how this affects the sound.</p>
CC Smoothness	<p>0-15</p> <p>Adjusts the resolution used when detecting the motion of the hi-hat pedal.</p> <p>Use a smaller value when you want to minimize the changes in sound between the open and closed state.</p> <p>* This parameter is only for the hi-hat.</p>
Closed Pedal Tune	<p>-7-7</p> <p>Adjusts the position at which the hi-hat closes.</p> <p>Smaller values result in a higher closed position, which lets you close the hi-hat with less force.</p> <p>Larger values make the hi-hat close only when you press the pedal with greater force.</p> <p>* This parameter is only for the hi-hat.</p>

TRIG DWE HUB (page 5)



Parameter	Explanation
RF Channel	1 (2402MHz), 2 (2426MHz), 3 (2451MHz), 4 (2480MHz)
MIDI Output	Soft Only, Hub Only, Soft+Hub Soft Only: Uses only USB. Hub Only: Uses only MIDI OUT. Soft+Hub: Uses both USB and MIDI OUT. * When connecting the TD-50X to the DrumLink™ hub, use either the "Soft Only" or the "Soft+Hub" setting.
Send Note Off	OFF, ON When using MIDI OUT on the DrumLink™ hub, this determines whether to output note-off data or not.

\* The values aside from those of the Assign parameter are stored in the DrumLink™ hub or in each pad, not in the TD-50X. These parameters are not saved when you perform the BACKUP ALL operation on the TD-50X.

### Other settings and features

#### If the DWe pads are not recognized

If your DWe pads are not recognized even when you connect the DrumLink™ hub to which they are already paired, follow the steps below.

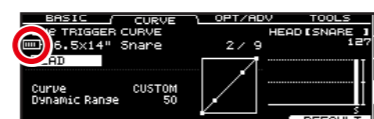
1. Press the [TRIGGER] button on the TD-50X.
2. Press the PAGE [DOWN] button to display page 5 (TRIG DWE HUB).
3. Press the [F3] (RF ON) button.
4. Press the [F3] (RF OFF) button again to change the setting to RF ON.  
If the pads are still not recognized after you do this, disconnect the TD-50X from the DrumLink™ hub and try connecting them again.

#### Crosstalk reduction

If another pad responds besides the one you struck, or if a pad responds due to sound or vibration from an external source such as a speaker, you can remedy this by adjusting the position of the pad, or by increasing the value of the Threshold parameter for the pad that reacts incorrectly.

#### Checking the remaining battery power

You can check the remaining battery power for each pad from the DWe TRIGGER BASIC, DWe TRIGGER CURVE or DWe TRIGGER OPTION/ADVANCED tabs on TRIG DWE (page 4).



When you strike a pad, its built-in LED lights up. If the pad LED does not light up even after you strike the pad, replace the batteries.

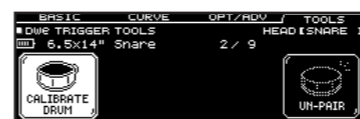
- NOTE**
- Use AA-size alkaline batteries.
  - The fluid in the batteries may leak if the remaining battery level gets too low. Replace the batteries as soon as possible.
  - Remove the batteries from the pads when you are not using the pads for an extended period of time.

### Unpairing the TD-50X and DWe pads

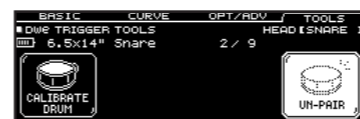
Here's how to unpair the TD-50X from the DWe pads.

1. Press the [TRIGGER] button on the TD-50X.
2. Press the PAGE [UP] [DOWN] buttons to display page 4 (TRIG DWE).
3. Press the [F4] (TOOLS) button to show the DWe TRIGGER TOOLS screen.
4. Strike to select the DWe pad that you want to unpair.  
You can also use the cursor buttons to move the cursor, and use the [-] [+] buttons or the dial to select the DWe pad to set.

Example: when DWe snare is selected



5. Use the cursor buttons to select "UN-PAIR", and press the [ENTER] button.



6. Use the cursor buttons to select "OK", and press the [ENTER] button.



7. After the message appears, strike the selected pad to unpair it.

### Updating the firmware for the DWe DrumLink™ hub and for each pad

To update the firmware for the DWe DrumLink™ hub and for the pads, continue the DWe to your computer and use the DWe Control application.

See the DWe product support page for update instructions.

[www.dwdrums.com/DWe/support](http://www.dwdrums.com/DWe/support)

